

WINSTAR Display

OLED SPECIFICATION

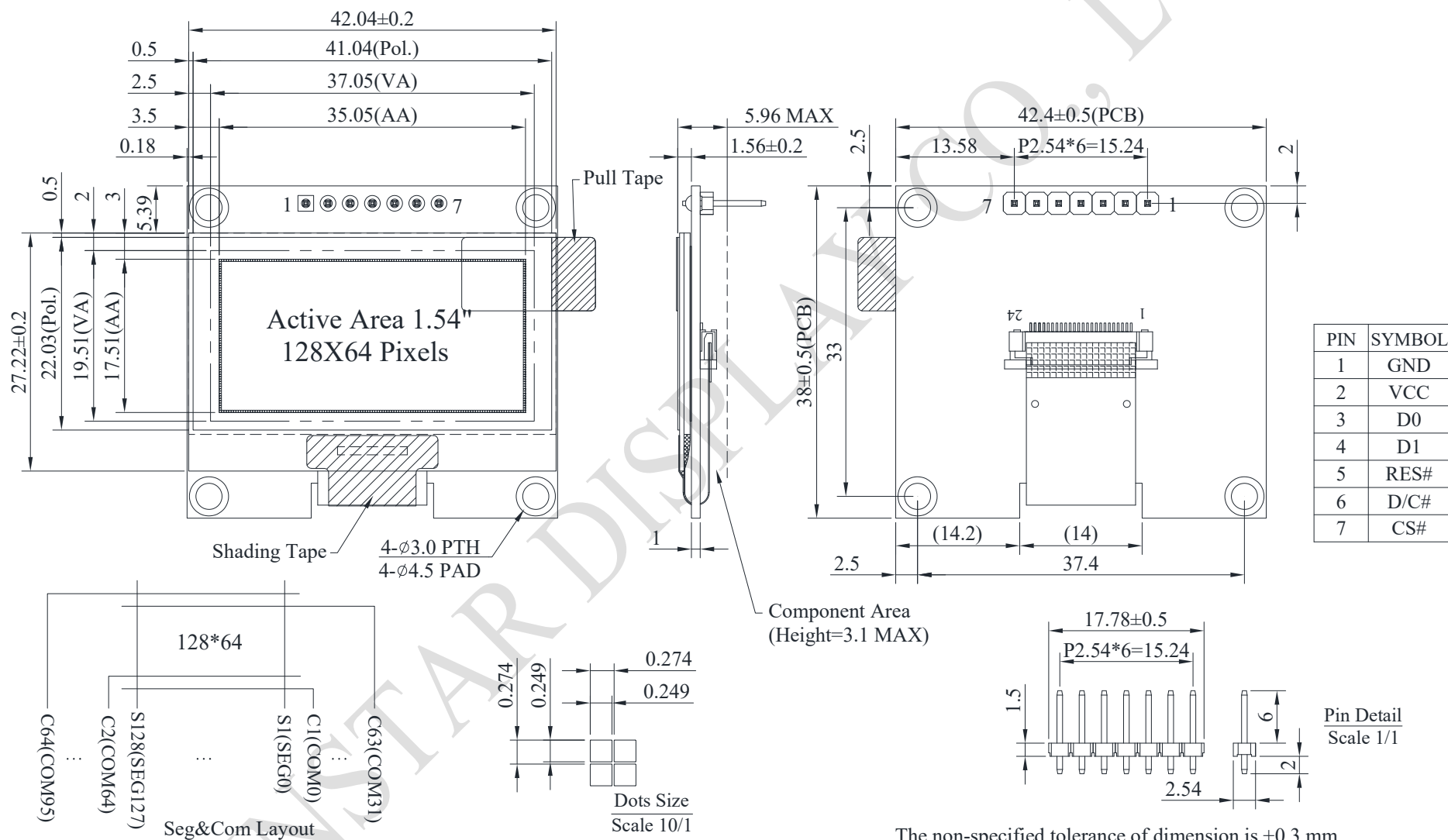
Model No:

WEA012864AA

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 64	—
Module dimension	42.40 x 38.00 x 5.96(MAX)	mm
Active Area	35.05 x 17.51	mm
Pixel Size	0.249 x 0.249	mm
Pixel Pitch	0.274 x 0.274	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/64 Duty	
Gray Scale	4 bits	
IC	SSD1327	
Interface	4-wire SPI	
Size	1.54 inch	

Contour Drawing & Block Diagram



The non-specified tolerance of dimension is ±0.3 mm .

Interface Pin Function

No.	Symbol	Function
1	GND	This is a ground pin.
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. It is supplied by external high voltage source.
3	D0	These pins are bi-directional data bus connecting to the MCU data bus.
4	D1	Unused pins are recommended to tie LOW. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC.
5	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.
6	D/C#	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register.
7	CS#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VCC	2.0	5.5	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic(3V/5V)	VCC	—	2.8	3.3	5.2	V
Input High Volt.	VIH	—	$0.8 \times VCC$	—	VCC	V
Input Low Volt.	VIL	—	0	—	$0.2 \times VCC$	V
Output High Volt.	VOH	—	$0.9 \times VCC$	—	VCC	V
Output Low Volt.	VOL	—	0	—	$0.1 \times VCC$	V
Display 50% Pixel on	ICC	VCC=3.3V	—	60	120	mA